

AIRCRAFT DISPATCHER
UNIT 5 – COMMUNICATIONS

NOTES

DETAILED LESSON PLAN OUTLINE

CURRICULUM:	BLM Fire and Aviation Training
COURSE:	Aircraft Dispatcher
UNIT:	5 - Communications
SUGGESTED TIME:	1 hour
TRAINING AIDS:	Overhead projector or computer with CD-ROM and LCD projector; projection screen; markers; masking tape or tacks; handouts; and flip chart
OBJECTIVES:	<p>Given a simulated wildland fire incident, case study or exercise, students will be able to</p> <ul style="list-style-type: none">• Identify the two basic types of aviation radio frequencies commonly assigned to incidents and their respective purposes.• Identify the purpose of a tone assigned to a radio frequency and how tones are assigned.• List the sequence of procedures to be performed when requesting an additional aviation frequency.• Define the purpose for the Air Guard frequency.• List the two key considerations when managing aviation frequencies for multiple fires.• List five radio etiquette guidelines.

OUTLINE	AIDS & CUES
Introduce Unit 5.	05-01-ACDP-EP
Present the unit objectives.	05-02-ACDP-EP 05-03-ACDP-EP 05-04-ACDP-EP
I. BASIC TYPES OF AVIATION RADIO FREQUENCIES	05-05-ACDP-EP
A. FM–Frequency Modulation <ul style="list-style-type: none"> Air-to-ground Air-to-dispatch 	05-06-ACDP-EP
B. AM–Amplitude Modulation <ul style="list-style-type: none"> Air-to-air Helibase air traffic control Emergency Locator Transmitter (ELT) National Airtanker Base Frequency 	05-07-ACDP-EP
II. PURPOSES OF TONES	05-08-ACDP-EP
Discuss with students that a tone is a signal to a repeater.	
A. Maximize frequency use B. Minimize interference C. Manage repeater systems	

OUTLINE	AIDS & CUES
<p>III. PROCESS FOR REQUESTING ADDITIONAL FREQUENCIES</p> <p>A. Determine actual need and usage (AM or FM).</p> <p>Discuss with students that changing air-to-air and air-to-ground frequencies during an operational period is not advised. The preferred change is at the beginning of an operation period.</p> <p>B. Order additional frequencies on an Aircraft Resource Order through normal dispatch channels.</p> <p>Discuss with students frequency management with regards to the limited number of available AM frequencies.</p> <p>C. NICC will place the order with the National Interagency Radio Support Cache (NIRSC).</p> <p>D. A frequency coordinator may be assigned during times of extended heavy activity.</p>	<p>05-09-ACDP-EP</p> <p>05-10-ACDP-EP</p>
<p>IV. WHAT IS AIR GUARD?</p> <p>A. Pilot uses to declare an emergency on the aircraft.</p> <p>B. Dispatch uses to divert aircraft.</p> <p>C. Frequency: 168.625</p> <p>Mention to students that Air Guard may be used during initial call-up when nothing else seems to work. DO NOT use Air Guard as a normal communication tool.</p>	<p>05-11-ACDP-EP</p>

OUTLINE	AIDS & CUES
<p>V. MANAGING FREQUENCIES FOR MULTIPLE FIRES</p> <p>Advise students that managing radio traffic before securing a new frequency can often alleviate the need for additional frequencies.</p> <p>A. Ensure frequency separation between the incidents.</p> <p>B. During multiple incidents, determine the need for a frequency coordinator.</p> <p>Refer to the National Interagency Mobilization Guide, Chapter 20, for further information about managing frequencies.</p>	<p>05-12-ACDP-EP</p>
<p>VI. RADIO ETIQUETTE GUIDELINES</p> <ul style="list-style-type: none"> • Speak in clear text, plain language. Do not use codes. • Keep messages short and to the point. Think of what you need to say before you transmit. • Stay alert, keep calm, think clearly, act decisively. (Fire Order #10) • Maintain a sterile cockpit during take-offs and landings. <ul style="list-style-type: none"> – 10- to 15-minute time period – Pilot-declared • “DO NOT SHOUT” into the microphone. 	<p>05-13-ACDP-EP</p> <p>05-14-ACDP-EP</p>
<p>Refer students to Student Appendix D, Frequencies and Management, for a terminology aid.</p>	<p>SG Appendix D</p>

OUTLINE	AIDS & CUES
Review unit objectives.	05-15-ACDP-EP 05-16-ACDP-EP 05-17-ACDP-EP
Ask students if there are any questions.	05-18-ACDP-EP

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05-01-ACDP-EP	Title Slide
05-02-ACDP-EP	Unit Objectives
05-03-ACDP-EP	Unit Objectives
05-04-ACDP-EP	Unit Objectives
05-05-ACDP-EP	Basic Types of Aviation Radio Frequencies
05-06-ACDP-EP	FM–Frequency Modulation
05-07-ACDP-EP	AM–Amplitude Modulation
05-08-ACDP-EP	Purposes of Tones
05-09-ACDP-EP	Process for Requesting Additional Frequencies
05-10-ACDP-EP	Process for Requesting Additional Frequencies
05-11-ACDP-EP	What is Air Guard?
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